

IN THE CLAIMS:

A status of all the claims of the present Application is presented below:

1. (Previously presented) A building material, comprising:
a cementitious substrate having a first side and a second side;
at least one resin impregnated paper over at least one of said first and second sides;
a stress-relieving polymeric film disposed between said cementitious substrate and said at least one resin impregnated paper, said polymeric film acting as a stress relaxer between said cementitious substrate and said at least one resin impregnated paper; and
an adhesive disposed on at least one surface of the polymeric film, wherein the adhesive is disposed between the polymeric film and the cementitious substrate, between the polymeric film and the at least one resin impregnated paper, or combinations thereof.
2. (Previously presented) The building material of Claim 1, wherein the polymeric film is a material selected from the group consisting of polyurethane, acrylic, acrylic-styrene, polyester, polyether, polyvinyl and their modified films, epoxy, polyamide, polyimide, polysulfide, and silicon based polymer.
3. (Previously presented) The building material of Claim 1, wherein the polymeric film is an elastomer.
- 4-7. (Canceled)
8. (Previously presented) The building material of Claim 1, wherein the polymeric film has a glass transition temperature between about -90 and 50°C.
9. (Canceled)
10. (Original) The building material of Claim 1, wherein the resin impregnated paper includes a cellulose paper penetrated with resin selected from the group consisting of melamine-formaldehyde and phenol-formaldehyde.
11. (Original) The building material of Claim 1, wherein a resin impregnated paper is laminated to both said first and second sides.

12. (Original) The building material of Claim 1, comprising at least one layer of phenol-formaldehyde penetrated paper over the first side of the cementitious substrate, and at least one layer of melamine-formaldehyde penetrated paper over the at least one layer of phenol-formaldehyde penetrated paper.

13. (Previously presented) The building material of Claim 1, wherein the polymeric film is an adhesive.

14. (Previously presented) The building material of Claim 1, wherein the polymeric film provides sufficient stress-relief to prevent delamination between the cementitious material and the at least one resin impregnated paper after the laminated structure is incubated at a temperature of about 60°C for not less than three days.

15. (Previously presented) The building material of Claim 1, wherein the polymeric film provides sufficient stress-relief to prevent delamination between the cementitious material and the at least one resin impregnated paper after storing said laminated structure in a desiccated environment having a relative humidity of not more than 10% for a period of not less than two days.

16. (Previously presented) The building material of Claim 1, wherein the polymeric film provides sufficient stress-relief to prevent delamination between the cementitious material and the at least one resin impregnated paper after subjecting said laminated structure to at least five serial wet and dry cycles, wherein said dry cycle comprises incubating said laminate structure for about twenty-four hours at about 60°C, and said wet cycle comprises soaking said laminate structure in water for twenty-four hours.

17. (Previously presented) A building material, comprising:
a cementitious substrate having a thickness, a first side and a second side;
at least one resin impregnated paper over at least one of said first and second sides, each resin impregnated paper having a thickness;
a stress-relieving polymeric film disposed between said cementitious substrate and said at least one resin impregnated paper, said polymeric film acting as a stress relaxer between said cementitious substrate and said at least one resin impregnated paper; and

at least one adhesive layer disposed between said cementitious substrate and said at least one resin impregnated paper, wherein the at least one adhesive layer is deposited between the cementitious substrate and the polymeric film, deposited between the polymeric film and the at least one resin impregnated paper, or combinations thereof.

18-19. (Cancelled)

20. (Previously presented) A building material comprising,
a cementitious substrate having a thickness, a first side and a second side;
at least one resin impregnated paper over at least one of said first and second sides, each resin impregnated paper having a thickness;
a stress-relieving elastomer film disposed between said cementitious substrate and said at least one resin impregnated paper, said elastomer acting as a stress relaxer between said cementitious substrate and said at least one resin impregnated paper, wherein the thickness of the elastomer film is about 5 mil or less; and
at least one adhesive layer disposed between said cementitious substrate and said at least one resin impregnated paper.

21. (Previously presented) The building material of Claim 20, wherein the thickness of the elastomeric film is about 0.2 mil.

22. (Previously presented) A building material, comprising:
a cementitious substrate having a first side and a second side;
at least one resin impregnated paper over at least one of said first and second sides;
a stress-relieving polymeric film disposed between said cementitious substrate and said at least one resin impregnated paper, said polymeric film acting as a stress relaxer between said cementitious substrate and said at least one resin impregnated paper;
wherein the polymeric film has an elongation between about 20% and 1200%, wherein the polymeric film has a modulus of elasticity at 100% elongation of between about 10 and 10,000 psi, and wherein the polymeric film has a glass transition temperature between about -90 and 50°C; and
an adhesive disposed on at least one surface of the polymeric film, wherein the adhesive is disposed between the polymeric film and the cementitious substrate, between the polymeric film and the at least one resin impregnated paper, or combinations thereof.

23. (Previously presented) A building material, comprising:
a cementitious substrate having a first side and a second side;
at least one resin impregnated paper over at least one of said first and second sides;
a stress-relieving polymeric film disposed between said cementitious substrate and said at least one resin impregnated paper, said polymeric film acting as a stress relaxer between said cementitious substrate and said at least one resin impregnated paper;
wherein the polymeric film has an elongation between about 20% and 1200%; and
an adhesive disposed on at least one surface of the polymeric film, wherein the adhesive is disposed between the polymeric film and the cementitious substrate, between the polymeric film and the at least one resin impregnated paper, or combinations thereof.

24. (Previously presented) The building material of Claim 23, wherein the polymeric film has an elongation between about 100% and 1000%.

25. (Previously presented) A building material, comprising:
a cementitious substrate having a first side and a second side;
at least one resin impregnated paper over at least one of said first and second sides;
a stress-relieving polymeric film disposed between said cementitious substrate and said at least one resin impregnated paper, said polymeric film acting as a stress relaxer between said cementitious substrate and said at least one resin impregnated paper;
wherein the polymeric film has a modulus of elasticity at 100% elongation of between about 10 and 10,000 psi; and
an adhesive disposed on at least one surface of the polymeric film, wherein the adhesive is disposed between the polymeric film and the cementitious substrate, between the polymeric film and the at least one resin impregnated paper, or combinations thereof.

26. (Previously presented) The building material of Claim 25, wherein the polymeric film has a modulus of elasticity at 100% elongation of between about 50 and 8,000 psi.

27. (Previously presented) The building material of Claim 20, wherein the at least one adhesive layer is selected from the group consisting of polyurethane, acrylic, acrylic-styrene, polyester, polyether, polyvinyl and their modified films, epoxy, polyamide, polyimide, polysulfide, and silicon based polymer.

28. (Previously presented) The building material of Claim 27, wherein the at least one adhesive layer has polymeric film properties.

29. (Previously presented) A building material, comprising:
a cementitious substrate having a first side and a second side;
at least one resin impregnated paper over at least one of said first and second sides;
a stress-relieving polymeric film disposed between said cementitious substrate and said at least one resin impregnated paper, said polymeric film acting as a stress relaxer between said cementitious substrate and said at least one resin impregnated paper, and said polymeric film having a glass transition temperature between about -90°C and 50°C; and
an adhesive disposed on at least one surface of the polymeric film, wherein the adhesive is disposed between the polymeric film and the cementitious substrate, between the polymeric film and the at least one resin impregnated paper, or combinations thereof.